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5. (Twice Amended) The spark plug for an internal combustion according to claim 1, wherein a thermal conduction core is disposed in an interior of said base of said ground electrode.

6. (Amended) The spark plug for an internal combustion according to claim 2, wherein a thermal conduction core is disposed in an interior of said base of said ground electrode.

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7. (Amended) The spark plug for an internal combustion according to claim 3, wherein a thermal conduction core is disposed in an interior of said base of said ground electrode.

8. (Amended) The spark plug for an internal combustion according to claim 4, wherein a thermal conduction core is disposed in an interior of said base of said ground electrode.